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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,313	11/24/2000	Thomas Geisler	1350	3820

7590

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EXAMINER

AMINI, JAVID A

ART UNIT

PAPER NUMBER

2672

DATE MAILED: 12/17/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/673,313

Applicant(s)

GEISLER, THOMAS

Examiner

Javid A Amini

Art Unit

2672

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --****Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) \_\_\_\_ is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-9 rejected under 35 U.S.C. 103(a) as being unpatentable over Cyman et al. us patent 5,796, 441.

1. Claim 1.

A method for representing objects in bitmapped format on a matrixlike display device, having the following steps: calculation of a plurality of bit maps for a certain number of various object representations along a predetermined path curve in advance; storage of the plurality of bit maps in memory in advance; and execution of a representation processing with a display sequence of object representations along the path curve by reading and displaying correspondingly memorized bit maps.

Cyman et al. Thereafter, Cyman teaches in (col. 4, lines 7-20) raster image (bitmapped image) processor that can receive inputs in various different formats (e.g., fonts, full color graphics, line art, patterns, etc.) from a variety of different input devices and is capable of generating outputs in different formats usable by different types of printing (or other) output devices (most of displays are arranged of rows and columns and each contains pixel and the number of rows and column can be shown as n X m which is a matrix like display). Cyman teaches In (col. 5, lines 44-46)

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Graphics module is capable of generating bar charts, pie charts, diagonal and curved lines "on the fly" during production .

Cyman illustrated in Fig. 1 components 60, 62 and 64 are electronic devices that create, store, manipulate and process digital data to produce a digital representation of a visible image.

2. Claim 2.

The method of claim 1, characterized in that in the calculation of the plurality of bit maps in advance, a filtration is performed for the sake of edge smoothing in the local region.

The step is obvious because the filtration always calculated the unwanted signals to present better edge smoothing.

3. Claim 3.

The method of claim 1, characterized in that an associated precalculated and pre-stored background image has the various object representations superimposed on it.

Cyman teaches in (col. 6, lines 43-46) the system supports several merge types including Transparent (background remains), Overprint (background replaced), Knockout (background under character glyph is removed)

4. Claim 4.

The method of claim 1, characterized in that the spatial difference between adjacent object representations along the path curve, which are precalculated and pre-stored as a respective bit map, is substantially smaller than the applicable object representations.

Cyman illustrating the spatial difference between adjacent objects; see Fig. 1, and this step is obvious because Cyman's method readjust the output of raster image according to display size.

5. Claim 5.

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The method of claim 1, characterized in that for displaying object representations, which are located between two object representations having a respective precalculated and pre-stored bit map, a paired interpolation between the corresponding pixel values is performed. The step is obvious because that's how the image can be created.

6. Claim 6.

The method of claim 5, characterized in that the pixel values are present separately in accordance with certain colors, preferably the three fundamental colors of red, green and blue, and the interpolation is performed separately for each color.

Cyman teaches in Fig. 4 item 90 the set color.

7. Claim 7.

The method of claim 6, characterized in that for the interpolation, the mean value for each pixel, weighted in accordance with the intermediate position, is calculated. The step is obvious because the mean value and weighted values are part of the interpolation process.

8. Claim 8.

The method of claim 1, characterized in that a compression of the pre-stored bit map data is performed. Cyman teaches in (col. 12, lines 12-20) the graphics module 900 generates vector graphics "on the fly" based on instructions from RISC controller module 300, and also is capable of efficiently de-compressing and/or scaling image files.

9. Claim 9

The method of claim 1, characterized in that the method is employed on a dashboard display device, located on board a motor vehicle, for representing a pointer. The step is obvious because the parameters to relocate the method are not significant.

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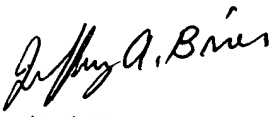
***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A Amini whose telephone number is 703-605-4248. The examiner can normally be reached on 8-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on 703-305-4713. The fax phone numbers for the organization where this application or proceeding is assigned are 703-746-8705 for regular communications and 703-746-8705 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-0377.

Javid Amini  
December 13, 2002

  
JEFFREY A. BRIES  
PRIMARY EXAMINER